



PTO/SB/08A (08-03)

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 7

Complete if Known

Application Number	10/033,051
Filing Date	October 25, 2001
First Named Inventor	Mehrotra et al.
Art Unit	1731
Examiner Name	Fiorilla, C.A.
Attorney Docket Number	K-1436PD

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U. S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages Relevant	Columns, Lines, Where Passages or Relevant Figures Appear
CF		US- 4,011,108	03/1977	Hellman et al.	X	X
CF		US- 4,038,092	07/1977	Baumgartner et al.	X	X
CF		US- 4,127,416	11/1978	Lumby et al.	X	X
CF		US- 4,227,842	10/1980	Samanta et al.	X	X
CF		US- 4,264,548	04/1981	Ezis	X	X
CF		US- 4,264,550	04/1981	Ezis	X	X
CF		US- 4,286,905	09/1981	Samanta	X	X
CF		US- 4,296,065	10/1981	Ishii et al.	X	X
CF		US- 4,388,085	06/1983	Sarin et al.	X	X
CF		US- 4,401,617	08/1983	Ezis et al.	X	X
CF		US- 4,406,667	09/1983	Sarin et al.	X	X
CF		US- 4,406,668	09/1983	Sarin et al.	X	X
CF		US- 4,409,003	10/1983	Sarin et al.	X	X
CF		US- 4,409,004	10/1983	Sarin et al.	X	X
CF		US- 4,416,670	11/1983	Sarin et al.	X	X
CF		US- 4,421,525	12/1983	Sarin et al.	X	X
CF		US- 4,431,431	02/1984	Sarin et al.	X	X
CF		US- 4,433,979	02/1984	Sarin et al.	X	X
CF		US- 4,434,238	02/1984	Ezis et al.	X	X

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶

Examiner Signature	CA Fiorilla	Date Considered	12/21/03
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

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PRIMARY EXAMINER
ART UNIT 1731



PTO/SB/08A (02-03)
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Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/033,051
		Filing Date	October 25, 2001
		First Named Inventor	Mehrotra et al.
		Art Unit	1731
		Examiner Name	Fiorilla, C.A.
Sheet 2	of 7	Attorney Docket Number	K-1436PD

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U. S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.†	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		Number-Kind Code² (if known)				
CF		US- 4,440,547	04/1984	Sarin et al.	X	X
CF		US- 4,440,707	04/1984	Shimamori et al.	X	X
CF		US- 4,441,894	04/1984	Sarin et al.	X	X
CF		US- 4,449,989	05/1984	Sarin et al.	X	X
CF		US- 4,497,228	02/1985	Sarin et al.	X	X
CF		US- 4,563,433	01/1996	Yeckley et al.	X	X
CF		US- 4,575,449	03/1986	Lueth	X	X
CF		US- 4,607,017	08/1986	Wolfe et al.	X	X
CF		US- 4,609,633	09/1986	Fukuhara et al.	X	X
CF		US- 4,632,910	12/1986	Lee et al.	X	X
CF		US- 4,640,693	02/1987	Bhat et al.	X	X
CF		US- 4,650,498	03/1987	Buljan	X	X
CF		US- 4,652,276	03/1987	Burden	X	X
CF		US- 4,670,024	06/1987	Bhat et al.	X	X
CF		US- 4,711,644	12/1987	Yeckley et al.	X	X
CF		US- 4,743,571	05/1988	Steinmann et al.	X	X
CF		US- 4,745,022	05/1988	Miyake et al.	X	X
CF		US- 4,769,350	09/1988	Nishioka et al.	X	X
CF		US- 4,789,277	12/1988	Rhodes et al.	X	X

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.†	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T³
		Country Code² Number ⁴ Kind Code⁵ (if known)				

Examiner Signature	<i>CA Fiorilla</i>	Date Considered	12/24/03
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		Application Number	10/033,051
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Filing Date	October 25, 2001
		First Named Inventor	Mehrotra et al.
		Art Unit	1731
		Examiner Name	Fiorilla, C.A.
		Attorney Docket Number	K-1436PD
Sheet	3	of	7

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Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	CLASS	SUB
		Number-Kind Code ² (if known)				
CE		US- 4,843,039	06/1989	Akesson et al.	X	X
CE		US- 4,848,984	07/1989	Ezis et al.	X	X
CE		US- 4,880,755	11/1989	Mehrotra	X	X
CE		US- 4,881,950	11/1989	Bhat et al.	X	X
CE		US- 4,892,792	01/1990	Sarin et al.	X	X
CE		US- 4,913,936	04/1990	Mehrotra et al.	X	X
CE		US- 4,946,630	08/1990	Ezis	X	X
CE		US- 4,959,331	09/1990	Mehrotra et al.	X	X
CE		US- 4,959,332	09/1990	Mehrotra et al.	X	X
CE		US- 4,960,735	10/1990	Mehrotra et al.	X	X
CE		US- 4,961,757	10/1990	Rhodes et al.	X	X
CE		US- 4,965,231	10/1990	Mehrotra et al.	X	X
CE		US- 5,024,976	06/1991	Mehrotra et al.	X	X
CE		US- 5,049,531	09/1991	Nakanishi et al.	X	X
CE		US- 5,079,198	01/1992	Edler et al.	X	X
CE		US- 5,110,770	05/1992	Brandt et al.	X	X
CE		US- 5,122,485	06/1992	Akimune	X	X
CE		US- 5,171,723	12/1992	Moriguchi et al.	X	X
CE		US- 5,198,165	03/1993	Akimune et al.	X	X

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
CE		DE 3938644	05/1990	NGK Spark Plug	X	
CE		DE 3939989	07/1990	NGK Spark Plug	X	
CE		DE 4000777	08/1990	NGK Spark Plug	X	
CE		EP 0107919	05/1984	British Cer. Re	X	
CE		EP 0298936	01/1989	Sandvik AB	X	
CE		EP 0497355	08/1992	NGK Spark Plug	X	

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Examiner Signature	<i>CA Fiorilla</i>	Date Considered	12/21/03
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 4 of 7

Complete if Known

Application Number	10/033,051
Filing Date	October 25, 2001
First Named Inventor	Mehrotra et al.
Art Unit	1731
Examiner Name	Fiorilla, C.A.
Attorney Docket Number	K-1436PD

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U. S. PATENT DOCUMENTS

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		Number-Kind Code ² (if known)					
CE		US- 5,234,643	08/1993	Matsumoto	X	X	X
CE		US- 5,250,477	10/1993	Baldoni, II et al.	X	X	X
CE		US- 5,294,575	03/1994	Matsumoto	X	X	X
CE		US- 5,296,008	03/1994	Moriguchi et al.	X	X	X
CE		US- 5,308,561	05/1994	Leimer et al.	X	X	X
CE		US- 5,316,856	05/1994	Suzuki et al.	X	X	X
CE		US- 5,326,733	07/1994	Mizuno et al.	X	X	X
CE		US- 5,352,641	10/1994	Matsui et al.	X	X	X
CE		US- 5,370,716	12/1994	Mehrotra et al.	X	X	X
CE		US- 5,382,273	01/1995	Mehrotra et al.	X	X	X
CE		US- 5,384,081	01/1995	Wolting et al.	X	X	X
CE		US- 5,384,292	01/1995	Matsui et al.	X	X	X
CE		US- 5,405,592	04/1995	Edler et al.	X	X	X
CE		US- 5,411,923	05/1995	Suzuki et al.	X	X	X
CE		US- 5,424,256	06/1995	Yoshimura et al.	X	X	X
CE		US- 5,432,132	07/1995	Dasgupta et al.	X	X	X
CE		US- 5,439,855	08/1995	Rosenthal	X	X	X
CE		US- 5,445,776	08/1995	Honma et al.	X	X	X
CE		US- 5,449,649	09/1995	Li et al.	X	X	X

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶	CLASS	SOB
		Country Code ³ Number *Kind Code ⁴ (if known)						
CE		EP 0499861	08/1992	Sumitomo El. In	X			
CE		EP 0589997	04/1994	AlliedSignal In	X			
CE		EP 0615963	09/1994	Sumitomo el. In	X			
CE		EP 0472256	08/1995	Dow Chemical Co	X			
CE		JP 0354143	03/1991	Honda Engineer	X			
CE		JP 3193666	08/1991	INAX, Inc.	X			

Examiner Signature	CA Fiorilla	Date Considered	12/21/03
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ART UNIT 1731



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Sheet 5 of 7

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Application Number	10/033,051
Filing Date	October 25, 2003
First Named Inventor	Mehrotra et al.
Art Unit	1731
Examiner Name	Fiorilla, C.A.
Attorney Docket Number	K-1436PD

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Examiner Initials*	Cite No.†	U. S. PATENT DOCUMENTS		Name of Patentee or Applicant of Cited Document	CLASS	SUB	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Document Number	Publication Date MM-DD-YYYY				
		Number-Kind Code ² (if known)					
CE		US- 5,454,232	09/1995	Hida et al.	X	X	X
CE		US- 5,455,000	10/1995	Seyferth et al.	X	X	X
CE		US- 5,472,919	12/1995	Mitomo et al.	X	A	X
CE		US- 5,502,011	03/1996	Yamamoto et al.	X	A	X
CE		US- 5,525,134	06/1996	Mehrotra et al.	X	X	X
CE		US- 5,541,143	07/1996	Hirosaki et al.	X	X	X
CE		US- 5,545,362	08/1996	Hirosaki et al.	X	X	X
CE		US- 5,545,597	08/1996	Yeckley	X	X	X
CE		US- 5,571,760	11/1996	Pujari et al.	X	X	X
CE		US- 5,628,590	05/1997	Beeghly et al.	X	X	X
CE		US- RE35,538	06/1997	Akesson et al.	X	X	X
CE		US- 5,668,069	09/1997	Sato et al.	X	X	X
CE		US- 5,691,261	11/1997	Takahashi et al.	X	X	X
CE		US- 5,705,449	01/1998	Hirao et al.	X	X	X
CE		US- 5,720,917	02/1998	Matsuura et al.	X	X	X
CE		US- 5,759,481	06/1998	Pujari et al.	X	X	X
		US-					
		US-					
		US-					

FOREIGN PATENT DOCUMENTS						
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		Country Code ³	Number ⁴ "Kind Code" ⁵ (if known)			
CE		WO	9718177	05/1997	Kennametal Inc.	
CE		WO	9735817	10/1997	Sandvik AB	
CE		JP4-136174 (full English translation)		05/1992	Mitsubishi	

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1	1
1	1
1	1

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PRIMARY EXAMINER
ART UNIT 1731

OCT 09 2003

PTO/SB/08B(05-03)

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(Use as many sheets as necessary)

Sheet

6

of

7

Compleat If Known	
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Art Unit	1731
Examiner Name	Fiorilla, C.A.
Attorney Pocket Number	K-1436PD

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
CF		SIVASANKARAN et al., "Wear of Ceramic Tools in Machining Cast Iron", pp. 293-301 (no date)	
CF		BEEGLY et al., "Application-Specialized Ceramics: A Silicon Nitride for Machining Gray Cast Iron", pp. 91-99; ASM Conference: Tool Materials, Scottsdale, AZ (Feb. 1987).	
CF		JANARDHANA REDDY et al., "Comparative Studies of Ceramic and Tungsten Carbide Tools for Machining Gray Cast Iron", pp. 161-171; Conference: Advanced Ceramics; India (March, 1990)	
CF		TENNENHOUSE et al., "Interaction of Silicon Nitride and Metal Surfaces", J. Am. Ceramic Soc. 68 (1) C30-C31 (1995 no month)	
CF		AGRANOV et al., "Wear Behavior of Hot Pressed Silicon Nitride in Cutting of Cast Iron", Ind. Ceramics Vol. 8, No. 4 pp. 192-197 (1988 no month)	
CF		BHOLA et al., "Ceramic Cutting Tool Inserts", Key Engineering Materials, vols. 122-124 (1996), pp. 235-246 (no month).	
CF		NISHIOKA et al., "Mechanical Properties of Si ₃ N ₄ Ceramics with ZrO ₂ -addition under High Temperature and Observation of the Micro-Structure" (date unknown)	
CF		FALK et al., "Microstructure and Short Term Oxidation of Hot-Pressed Si ₃ N ₄ /ZrO ₂ (+Y ₂ O ₃) Ceramics", J. Am. Ceramic Soc. 75 (1) (1992) pp. 28-35 (no month)	

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PTD/SB/08b(05-03)

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Application Number	10/033,051
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Filing Date	October 25, 2001
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First Named Inventor	Mehrotra et al.
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Art Unit	1731
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Examiner Name	Florilla, C.A.
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Attorney Docket Number	K-1436PD
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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
CF CF		KNUTSON-WEDEL, Si3N4 Ceramic Formed by HIP Using Additions of ZrO2", Ceramics Today-Tomorrow's Ceramics, Materials Science Monographs, 66B, Elsevier Science Publishers B.V. (1991 no month) pp.1347-1356	

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